



Kayak Buddys thanks you for your business. As an avid kayaker, it is my please to produce propulsion systems for various paddle watercraft. The small leg you have purchased is outfitted with all stainless and aluminum hardware. You will need to mount the unit using either a custom made mount or a purchased unit from a supplier. Please remember the propeller needs to be fully under water when mounted, so a custom mount that is adjustable is recommended. The waterline in which the leg is mounted is crucial, so please make sure you check the prop height as compared to the bottom of the kayak. It should sit lower than the deck bottom, otherwise it will cavitate. The legs height can be adjusted a few inches in either direction to accommodate the different boat styles. A crate mount versus a rod holder mount is recommended, since the rear deck is the strongest part of the kayak. Remember the unit weighs roughly 22lbs. with a standard engine mounted (12lbs by itself), so you will need a float on the engine side or a weighted ballast on the other to have optimum balance.

The unit comes with the 4 mounting bolts, and tools for attachment, and instructions. Some engines require both the ground wires to be connected inline. If the engine is a Honda as an example, it only comes with one black wire. The other wire can be grounded to one of the mounting bolts on the clutch housing. You will need to cut the end off the one ground wire, since your engine will be fitted and kill switch attached using the connectors provided. Please make sure you mount the engine and the pull cord facing you for easier starting. If you are using your provided engine, please make sure the clutch is in good working order. The engine mounting is straight forward. 4 bolts screw in from underneath the base and into the engine holes. Do not force any fittings. The sample figure 1.1 faces the opposite direction as this was a demo. 4 strokes are very easy to start and this makes it essential to have the fuel filler and cord closer to the paddler.

You will need to attach the main bracket with the stainless through bolt and nut. The picture below gives you an idea of how this looks when attached. Keep it lose until you grease the contact areas.



Bracket and clamp for mount.

Figure 1



Engine mounting and positioning.

Figure 1.1

The mounting arm can be mounted on either side of the engine depending on operational preference. You will need to loosen the large black knob and place the arm inside the clamp, rotating the throttle and kill switch facing upward. Once you have this set in place, you can tighten the clamp down and begin routing the throttle cable and kill switch. Make sure when you attach the throttle cable, then you can adjust the linkage with mounting nut on the throttle cable and don't forget to grease the cable. This is very important for optimal operation. Make sure you set the play with the turn screw and bolt to lock the correct setting for the carb to open. It should idle with the prop not turning. Pay attention to the cable, since it is very easy to tighten the cable too much and have it bind. Spray and grease the cable with a marine grade spray lubricant.



Carb throttle routing.

Figure 1.2

Some engines do not need more than 5 clicks on the throttle to go from idle to full throttle. Others have a larger throttle plate that will use the entire range on the throttle twist grip.

Make sure you line up all clamps vertically, lining up with the propeller facing you. The split in each clamp should line up from top to bottom. It is not totally necessary, but it works better in my opinion that way. The engine can mount farther in the water by loosening the clamps and lowering the engine down a few inches. Grease all parts that touch each other and spray all surfaces with CRC marine for the utmost protection from salt water, if you are using it in that environment.



Grease and adjustment points.

Figure 1.3

If you need any assistance, feel free to go the website and use the comment page under help to drop a note to us here at *kayakbuddys*. Include all of your relevant information, so we can further assist you. If you need more immediate help, please call 305 926-2937.